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Dairy-Herd-Improvement Letter

ARS-44-156
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DHIA PARTICIPATION REPORT
January 1, 1965

The National Cooperative Dairy Herd Improvement Program, which is a composite of the Standard (including DHIR), Owner-Sampler, and Weigh-a-Day-a-Month recordkeeping plans, included 67,908 herds and 2,962,557 cows on test January 1, 1965. This represents 18.4 percent of the nation's dairy cow population and an increase of 140,035 cows during the last year. Each of the 50 States and Puerto Rico are represented in the total program that includes 1,424 associations and 2,439 supervisors. The participation reports for the combined program, the Standard, Owner-Sampler, and Weigh-a-Day-a-Month plans are shown in tables 1, 3, 4, and 5, respectively.

The steady growth of Standard DHIA is shown in table 2. During the last year, 595 fewer herds, but 77,437 more cows, were included; herds averaged 52.1 cows per herd. There has been a slight but steady decline in percentage of fat test since 1950, averaging 0.014 percent per year. These averages and rates of decline are in close agreement with those estimated for all U.S. dairy cows.

The Owner-Sampler plan includes 818,406 cows, in 26,604 herds averaging 30.8 cows per herd. Wisconsin has 44.1 percent of the Owner-Sampler enrollment. The Weigh-a-Day-a-Month plan includes 56,570 cows in 1,229 herds, an average of 46.0 cows per herd.

Central processing by State and Regional DHIA Centers continues to advance. Central processing of Standard plan records (including DHIR) has reached 100 percent in 19 States, and in all States averages 83.6 percent of the herds and 74.5 percent of the cows. The corresponding values for the combined plans are 75.2 and 71.3 percent.

A 10-year summary of DHIA and all U.S. dairy cows is shown in table 7. Since 1955, the nation's dairy herd has been decreasing 553,000 cows annually, while participation in the total recordkeeping program has increased by 131,000 cows annually. The net result has been an increase in percent of U.S. dairy cows participating in the total DHIA program from 8.5 in 1955 to 18.4 in 1964.

A list of 463 counties having 25 percent or more of their dairy cows on one or more of the recordkeeping plans is shown in table 8.

Issued April 1965

TABLE 1.--The National Cooperative Dairy Herd Improvement Program
(January 1, 1965)

State	Counties	Asso- ciations	Super- visors	Standard		Owner-Sampler		Weigh-a-Day a-Month		Total		Milk cows in U. S.	
				Herds	Cows	Herds	Cows	Herds	Cows	Herds	Cows	Total 1/ Thousands	In all plans 2/ Pct.
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		
Ala-----	53	22	21	306	26,510	15	970	29	2,187	350	29,667	205	14.5
Alaska---	2	2	2	9	385	-	-	-	-	9	385	3	12.8
Ariz-----	7	4	14	123	20,206	25	5,628	-	-	148	25,834	52	49.7
Ark-----	20	14	13	67	3,149	30	1,281	-	-	97	4,430	175	2.5
Calif-----	43	30	126	1,962	350,987	211	14,854	-	-	2,173	365,841	790	46.3
Colo-----	18	14	22	213	14,414	22	1,028	-	-	235	15,442	108	14.3
Conn-----	8	8	24	418	22,687	75	3,044	-	-	493	25,731	74	34.8
Del-----	3	3	5	94	4,234	14	391	3	56	111	4,681	23	20.4
Fla-----	29	10	11	102	18,086	4	617	20	5,634	126	24,337	178	13.7
Ga-----	103	34	35	403	28,493	1	100	35	2,450	439	31,043	181	17.2
Hawaii---	2	1	1	11	1,970	1	250	4	191	16	2,411	14	17.2
Idaho-----	36	40	40	639	27,077	15	321	-	-	654	27,398	185	14.8
Ill-----	81	56	89	1,589	64,256	429	13,473	253	7,170	2,271	84,899	478	17.8
Ind-----	84	59	82	1,156	43,381	352	10,492	-	-	1,508	53,873	386	14.0
Iowa-----	97	74	98	1,764	61,732	1,605	38,476	-	-	3,369	100,208	780	12.8
Kans-----	105	52	61	751	31,643	95	2,932	10	300	856	34,875	285	12.2
Ky-----	3/66	40	49	523	20,920	35	900	73	2,171	631	23,991	455	5.3
La-----	34	21	15	64	4,882	13	882	157	9,485	234	15,249	211	7.2
Maine-----	15	15	32	477	19,958	118	4,050	5	120	600	24,128	87	27.7
Md-----	17	17	36	796	43,959	82	3,312	-	-	878	47,271	207	22.8
Mass-----	11	10	26	493	22,168	84	2,557	-	-	577	24,725	83	29.8
Mich-----	3/73	80	127	2,153	90,722	1,920	59,627	-	-	4,073	150,349	620	24.2
Minn-----	85	87	210	3,809	126,440	2,133	55,711	-	-	5,942	182,151	1,265	14.4
Miss-----	43	16	19	217	13,402	3	198	75	2,500	295	16,100	284	5.7
Mo-----	83	48	44	575	25,130	62	2,317	101	3,175	738	30,622	573	5.3
Mont-----	14	7	9	71	3,946	16	1,064	-	-	87	5,010	68	7.4
Nebr-----	51	29	30	326	14,400	76	2,690	25	750	427	17,840	278	6.4
Nev 4/---	3/5	3	3	46	3,849	6	179	-	-	52	4,028	14	28.8
N. H-----	3/10	9	17	273	11,866	70	2,180	-	-	343	14,046	44	31.9
N. J-----	10	10	24	479	30,124	72	3,399	-	-	551	33,523	112	29.9
N. Mex---	8	6	7	30	4,282	5	300	6	1,610	41	6,192	40	15.5
N. Y-----	49	49	200	3,789	173,363	2,845	96,795	-	-	6,634	270,158	1,198	22.6
N. C-----	88	42	55	788	44,283	47	1,691	129	5,719	964	51,693	242	21.4
N. Dak---	27	19	18	162	6,015	47	958	88	1,748	297	8,721	244	3.6
Ohio-----	86	86	158	2,348	89,598	1,454	39,137	5	154	3,807	128,889	599	21.5
Okla-----	57	14	17	191	11,250	20	816	8	350	219	12,416	199	6.2
Oreg 4/--	28	18	27	440	27,215	150	4,600	10	250	600	32,065	137	23.4
Pa-----	67	59	204	4,639	175,423	1,444	39,878	-	-	6,083	215,301	820	26.3
P. R-----	14	1	5	20	4,575	-	-	24	4,520	44	9,095	-	-
R. I-----	5	2	2	44	2,276	4	76	-	-	48	2,352	11	21.4
S. C-----	34	21	21	248	21,350	2	78	23	881	273	22,309	93	24.0
S. Dak---	44	20	12	167	6,742	296	8,264	-	-	463	15,006	233	6.4
Tenn-----	83	42	33	491	26,809	3	126	68	2,006	562	28,941	459	6.3
Tex-----	3/84	26	29	334	27,751	10	620	16	1,340	360	29,711	489	6.1
Utah-----	22	15	18	380	19,056	30	1,006	-	-	410	20,062	86	23.3
Vt-----	13	30	59	970	47,721	508	19,624	-	-	1,478	67,345	240	28.1
Va-----	81	61	58	1,034	61,214	76	2,442	2	326	1,112	63,982	292	21.9
Wash-----	31	23	42	928	54,870	233	6,990	-	-	1,161	61,860	216	28.6
W. Va-----	30	12	16	121	6,186	9	394	60	1,477	190	8,057	108	7.5
Wis-----	69	59	166	3,003	125,446	11,808	360,760	-	-	14,811	486,206	2,115	23.0
Wyo-----	6	4	7	39	1,180	29	928	-	-	68	2,108	26	8.1
Total or average	2,134	1,424	2,439	40,075	2,087,581	26,604	818,406	1,229	56,570	67,908	2,962,557	1/16,065	18.4

1/ Preliminary figures for average number of milk cows on farms excluding heifers not yet fresh; estimated by the Statistical Reporting Service.

2/ Percentage of cows included in the National Cooperative Dairy Herd Improvement Program.

3/ Estimated.

4/ Based on last report available (1-1-64).

TABLE 2.--Growth of Dairy Herd Improvement Association work in the United States
(1906-1965, inclusive)

Year	Associa- tions <u>1/</u>	Super- visors <u>1/</u>	Standard Plan							
			Herds	Cows	Cows per herd	Average production				
						Herds reported	Cows reported	Milk	Fat	Fat
	No.	No.	No.	No.	No.	No.	No.	Lb.	Pct.	Lb.
1906---	1	----	31	239	7.7	-----	-----	5,300	4.06	215
1907---	4	----	-----	1,606	-----	-----	-----	5,366	4.10	220
1908---	6	----	-----	3,921	-----	-----	-----	-----	-----	---
1909---	25	----	-----	11,921	-----	-----	-----	-----	-----	---
1910---	40	----	-----	2/25,000	-----	-----	-----	2/5,730	3.96	2/227
1911---	64	----	-----	2/40,000	-----	-----	-----	-----	-----	---
1912---	82	----	-----	2/43,000	-----	-----	-----	-----	-----	---
1913---	100	----	-----	47,150	-----	-----	-----	-----	-----	---
1914---	163	----	-----	73,280	-----	-----	-----	-----	-----	---
1915---	211	----	-----	105,526	-----	-----	-----	-----	-----	---
1916---	346	----	-----	150,677	-----	-----	-----	-----	-----	---
1917---	459	----	11,720	216,831	18.5	-----	-----	-----	-----	---
1918---	353	----	9,778	172,518	17.6	-----	-----	-----	-----	---
1919---	385	----	10,000	167,313	16.7	-----	-----	-----	-----	---
1920---	468	----	11,948	203,472	17.0	-----	-----	6,175	4.00	247
1921---	452	----	11,209	193,928	17.3	-----	-----	-----	-----	---
1922---	513	----	12,508	215,321	17.2	-----	-----	-----	-----	---
1923---	627	----	16,357	277,010	16.9	-----	-----	-----	-----	---
1924 <u>3/</u>	---	-----	-----	-----	-----	-----	-----	-----	-----	---
1925---	732	----	18,677	307,073	16.4	-----	42,302	7,189	3.95	284
1926---	777	----	19,540	327,653	16.8	-----	103,443	7,331	3.96	290
1927---	837	----	21,128	362,014	17.1	-----	116,509	7,411	3.95	293
1928---	947	----	23,327	414,891	17.8	-----	152,412	7,476	3.96	296
1929---	1,090	----	26,182	465,804	17.8	-----	194,859	7,498	3.97	298
1930---	1,143	----	27,888	507,549	18.2	-----	235,624	7,642	3.96	303
1931---	1,112	----	26,308	510,714	19.4	-----	219,924	7,812	3.92	306
1932---	1,005	----	20,351	427,044	21.0	-----	186,683	7,858	3.95	310
1933---	881	----	15,447	358,501	23.2	-----	163,014	7,849	3.99	313
1934---	793	----	13,694	325,837	23.8	-----	203,930	8,015	4.02	322
1935---	809	----	15,573	364,218	23.4	-----	200,367	7,977	4.04	322
1936---	876	----	17,344	404,412	23.3	-----	257,248	7,912	4.03	319
1937---	992	----	20,772	496,562	23.9	-----	354,568	7,923	4.04	320
1938---	1,106	----	23,701	558,993	23.6	-----	448,025	7,831	4.05	317
1939---	1,228	----	25,949	625,284	24.1	-----	507,563	7,977	4.05	323
1940---	1,300	----	27,948	676,141	24.2	-----	545,382	8,133	4.07	331
1941---	1,383	----	31,381	763,502	24.3	-----	591,103	8,225	4.07	335
1942---	1,421	----	32,957	816,117	24.8	-----	514,758	8,323	4.07	339
1943---	1,057	----	24,155	616,972	25.5	-----	375,914	8,325	4.06	338
1944---	954	----	20,825	561,587	27.0	-----	383,337	8,296	4.05	336
1945---	949	----	21,254	577,200	27.2	-----	384,360	8,592	4.03	346
1946---	1,124	----	23,331	627,878	27.0	-----	413,554	8,635	4.04	349
1947---	1,426	----	28,812	775,546	26.9	-----	533,061	8,638	4.03	348
1948---	1,668	----	33,274	886,129	26.6	-----	620,385	8,675	4.03	350
1949---	1,787	----	35,851	943,939	26.3	-----	729,150	8,907	4.03	359
1950---	1,973	----	40,100	1,088,872	27.2	-----	836,922	9,172	4.03	370
1951---	2,143	----	42,949	1,186,615	27.6	-----	885,859	9,195	4.02	370
1952---	2,109	----	40,105	1,166,297	29.1	-----	928,376	9,192	3.98	366
1953---	2,151	----	40,983	1,226,588	29.9	-----	1,020,326	9,253	3.98	368
1954---	2,175	----	41,254	1,311,698	31.8	-----	1,079,557	9,363	3.97	372
1955---	2,288	----	41,240	1,333,866	32.3	-----	1,175,378	9,502	3.95	375
1956---	2,266	----	40,984	1,406,306	34.4	-----	1,229,971	9,713	3.94	383
1957 <u>4/</u>	1,700	2,310	41,638	1,479,799	35.5	-----	1,256,129	9,894	3.93	389
1958---	1,544	2,293	39,985	1,548,884	38.7	-----	1,345,750	10,068	3.91	394
1959---	1,500	2,337	40,284	1,607,538	39.9	-----	1,406,665	10,327	3.88	401
1960---	1,509	2,397	41,293	1,746,752	42.3	-----	5/1,343,725	5/10,561	5/3.87	5/409
1961---	1,395	2,448	42,558	1,867,469	43.9	28,649	1,280,785	10,796	3.87	418
1962---	1,436	2,472	42,034	1,958,355	46.6	32,794	1,531,826	11,032	3.86	426
1963---	1,441	2,516	41,937	2,006,534	47.8	35,378	1,674,803	11,286	3.85	434
1964---	1,420	2,474	40,670	2,010,144	49.4	35,689	1,746,475	11,685	3.83	447
1965---	1,424	2,439	40,075	2,087,581	52.1	-----	-----	-----	-----	---

1/ Number of associations and supervisors include all plans.

2/ Estimated.

3/ Date for collecting data changed in 1924 from July 1 to January 1.

4/ Prior to 1957 associations were counted on the basis of supervisor circuits.

5/ National testing year changed in 1960 to begin May 1. These values are averages of 1959 and 1961.

TABLE 3.--Standard DHIA recordkeeping in the United States
(January 1, 1965)

State	Counties Number	Herds Number	Cows Number	Av. cows per herd Number	All milk cows 1/ Thousands	DHIA cows as pct. of all milk cows 2/ Percent
Ala-----	52	306	26,510	86.6	205	12.9
Alaska-----	2	9	385	42.8	3	12.8
Ariz-----	6	123	20,206	164.3	52	38.9
Ark-----	16	67	3,149	47.0	175	1.8
Calif-----	43	1,962	350,987	178.9	790	44.4
Colo-----	18	213	14,414	67.7	108	13.3
Conn-----	8	418	22,687	54.3	74	30.7
Del-----	3	94	4,234	45.0	23	18.4
Fla-----	29	102	18,086	177.3	178	10.2
Ga-----	90	403	28,493	70.7	181	15.7
Hawaii-----	1	11	1,970	179.1	14	14.1
Idaho-----	36	639	27,077	42.4	185	14.6
Ill-----	81	1,589	64,256	40.4	478	13.4
Ind-----	84	1,156	43,381	37.5	386	11.2
Iowa-----	97	1,764	61,732	35.0	780	7.9
Kans-----	105	751	31,643	42.1	285	11.1
Ky-----	66	523	20,920	40.0	455	4.6
La-----	21	64	4,882	76.3	211	2.3
Maine-----	15	477	19,958	41.8	87	22.9
Md-----	17	796	43,959	55.2	207	21.2
Mass-----	11	493	22,168	45.0	83	26.7
Mich-----	70	2,153	90,722	42.1	620	14.6
Minn-----	85	3,809	126,440	33.2	1,265	10.0
Miss-----	38	217	13,402	61.8	284	4.7
Mo-----	73	575	25,130	43.7	573	4.4
Mont-----	14	71	3,946	55.6	68	5.8
Nebr-----	50	326	14,400	44.2	278	5.2
Nev 3/-----	4	46	3,849	83.7	14	27.5
N. H-----	4/10	273	11,866	43.5	44	27.0
N. J-----	10	479	30,124	62.9	112	26.9
N. Mex-----	7	30	4,282	142.7	40	10.7
N. Y-----	49	3,789	173,363	45.8	1,198	14.5
N. C-----	85	788	44,283	56.2	242	18.3
N. Dak-----	27	162	6,015	37.1	244	2.5
Ohio-----	86	2,348	89,598	38.2	599	15.0
Okla-----	50	191	11,250	58.9	199	5.7
Oreg 3/-----	25	440	27,215	61.9	137	19.9
Pa-----	67	4,639	175,423	37.8	820	21.4
P. R-----	5	20	4,575	228.8	-	-
R. I-----	5	44	2,276	51.7	11	20.7
S. C-----	34	248	21,350	86.1	93	23.0
S. Dak-----	30	167	6,742	40.4	233	2.9
Tenn-----	55	491	26,809	54.6	459	5.8
Tex-----	84	334	27,751	83.1	489	5.7
Utah-----	18	380	19,056	50.1	86	22.2
Vt-----	13	970	47,721	49.2	240	19.9
Va-----	81	1,034	61,214	59.2	292	21.0
Wash-----	26	928	54,870	59.1	216	25.4
W. Va-----	23	121	6,186	51.1	108	5.7
Wis-----	69	3,003	125,446	41.8	2,115	5.9
Wyo-----	6	39	1,180	30.3	26	4.5
Total or average----	2,000	40,075	2,087,581	52.1	16,065	13.0

- 1/ Preliminary figures for average number of milk cows on farms excluding heifers not yet fresh; estimated by the Statistical Reporting Service.
2/ Percentage of cows included in the Standard (including DHIR) recordkeeping plan.
3/ Based on last report available (1-1-64).
4/ Estimated.

TABLE 4.--Owner-Sampler recordkeeping in the United States
(January 1, 1965)

State	Counties Number	Herds Number	Cows Number	Av. cows per herd Number	All milk cows 1/ Thousands	O.S. cows as pct. of all milk cows 2/ Percent
Ala-----	7	15	970	64.7	205	0.5
Alaska-----	-	-	-	-	3	-
Ariz-----	3	25	5,628	225.1	52	10.8
Ark-----	11	30	1,281	42.7	175	.7
Calif-----	29	211	14,854	70.4	790	1.9
Colo-----	7	22	1,028	46.7	108	1.0
Conn-----	8	75	3,044	40.6	74	4.1
Del-----	2	14	391	27.9	23	1.7
Fla-----	4	4	617	154.3	178	.3
Ga-----	1	1	100	100.0	181	.1
Hawaii-----	1	1	250	250.0	14	1.8
Idaho-----	7	15	321	21.4	185	.2
Ill-----	29	429	13,473	31.4	478	2.8
Ind-----	21	352	10,492	29.8	386	2.7
Iowa-----	91	1,605	38,476	24.0	780	4.9
Kans-----	28	95	2,932	30.9	285	1.0
Ky-----	12	35	900	25.7	455	.2
La-----	6	13	882	67.8	211	.4
Maine-----	12	118	4,050	34.3	87	4.7
Md-----	11	82	3,312	40.4	207	1.6
Mass-----	10	84	2,557	30.4	83	3.1
Mich-----	73	1,920	59,627	31.1	620	9.6
Minn-----	78	2,133	55,711	26.1	1,265	4.4
Miss-----	3	3	198	66.0	284	.1
Mo-----	20	62	2,317	37.4	573	.4
Mont-----	5	16	1,064	66.5	68	1.6
Nebr-----	30	76	2,690	35.4	278	1.0
Nev 3/-----	1	6	179	29.8	14	1.3
N. H-----	4/6	70	2,180	31.1	44	5.0
N. J-----	7	72	3,399	47.2	112	3.0
N. Mex-----	5	5	300	60.0	40	.8
N. Y-----	49	2,845	96,795	34.0	1,198	8.1
N. C-----	11	47	1,691	36.0	242	.7
N. Dak-----	18	47	958	20.4	244	.4
Ohio-----	86	1,454	39,137	26.9	599	6.5
Okla-----	12	20	816	40.8	199	.4
Oreg 3/-----	18	150	4,600	30.7	137	3.4
Pa-----	61	1,444	39,878	27.6	820	4.9
P. R-----	-	-	-	-	-	-
R. I-----	3	4	76	19.0	11	.7
S. C-----	2	2	78	39.0	93	.1
S. Dak-----	38	296	8,264	27.9	233	3.5
Tenn-----	3	3	126	42.0	459	-
Tex-----	4	10	620	62.0	489	.1
Utah-----	12	30	1,006	33.5	86	1.2
Vt-----	13	508	19,624	38.6	240	8.2
Va-----	18	76	2,442	32.1	292	.8
Wash-----	29	233	6,990	30.0	216	3.2
W. Va-----	3	9	394	43.8	108	.4
Wis-----	69	11,808	360,760	30.6	2,115	17.1
Wyo-----	4	29	928	32.0	26	3.6
Total or average----	981	26,604	818,406	30.8	16,065	5.1

1/ Preliminary figures for average number of milk cows on farms during year excluding heifers not yet fresh; estimated by the Statistical Reporting Service.

2/ Percentage of cows included in the Owner-Sampler recordkeeping plan.

3/ Based on last report available (1-1-64).

4/ Estimated.

TABLE 5.--Weigh-a-Day-a-Month recordkeeping in the United States
(January 1, 1965)

State	Counties Number	Herds Number	Cows Number	Av. cows per herd Number	All milk cows 1/ Thousands	WADAM cows as pct. of all milk cows 2/ Percent
Ala-----	21	29	2,187	75.4	205	1.1
Alaska-----	-	-	-	-	3	-
Ariz-----	-	-	-	-	52	-
Ark-----	-	-	-	-	175	-
Calif-----	-	-	-	-	790	-
Colo-----	-	-	-	-	108	-
Conn-----	-	-	-	-	74	-
Del-----	1	3	56	18.7	23	.2
Fla-----	8	20	5,634	281.7	178	3.2
Ga-----	13	35	2,450	70.0	181	1.4
Hawaii-----	2	4	191	47.8	14	1.4
Idaho-----	-	-	-	-	185	-
Ill-----	36	253	7,170	28.3	478	1.5
Ind-----	-	-	-	-	386	-
Iowa-----	-	-	-	-	780	-
Kans-----	10	10	300	30.0	285	.1
Ky-----	14	73	2,171	29.7	455	.5
La-----	26	157	9,485	60.4	211	4.5
Maine-----	2	5	120	24.0	87	.1
Md-----	-	-	-	-	207	-
Mass-----	-	-	-	-	83	-
Mich-----	-	-	-	-	620	-
Minn-----	-	-	-	-	1,265	-
Miss-----	12	75	2,500	33.3	284	.9
Mo-----	34	101	3,175	31.4	573	.6
Mont-----	-	-	-	-	68	-
Nebr-----	12	25	750	30.0	278	.3
Nev 3/-----	-	-	-	-	14	-
N. H-----	-	-	-	-	44	-
N. J-----	-	-	-	-	112	-
N. Mex-----	7	6	1,610	268.3	40	4.0
N. Y-----	-	-	-	-	1,198	-
N. C-----	41	129	5,719	44.3	242	2.4
N. Dak-----	24	88	1,748	19.9	244	.7
Ohio-----	2	5	154	30.8	599	-
Okla-----	4	8	350	43.8	199	.2
Oreg 3/-----	3	10	250	25.0	137	.2
Pa-----	-	-	-	-	820	-
P. R-----	14	24	4,520	188.3	-	-
R. I-----	-	-	-	-	11	-
S. C-----	6	23	881	38.3	93	.9
S. Dak-----	-	-	-	-	233	-
Tenn-----	26	68	2,006	29.5	459	.4
Tex-----	7	16	1,340	83.8	489	.3
Utah-----	-	-	-	-	86	-
Vt-----	-	-	-	-	240	-
Va-----	2	2	326	163.0	292	.1
Wash-----	-	-	-	-	216	-
W. Va-----	21	60	1,477	24.6	108	1.4
Wis-----	-	-	-	-	2,115	-
Wyo-----	-	-	-	-	26	-
Total or average---	348	1,229	56,570	46.0	16,065	.4

- 1/ Preliminary figures for average number of milk cows on farms during year excluding heifers not yet fresh; estimated by the Statistical Reporting Service.
2/ Percentage of cows included in the Weigh-a-Day-a-Month recordkeeping plan.
3/ Based on last report available (1-1-64).

TABLE 6.--Records processed by State and regional computing centers
(January 1, 1965)

State	Standard DHIA (Incl. DHIR)				Dairy Herd Improvement Registry		Owner-Sampler		Total machine-processed records 1/		Machine-processed records as percent of total recordkeeping 1/	
	Herds		Cows		Herds		Cows		Herds		Cows	
	No.	No.	Pct.2/	Pct.2/	No.	No.	No.	No.	No.	No.	Pct.	Pct.
Ala-----	306	26,510	100.0	100.0	12	1,417	8	424	314	26,934	89.7	90.8
Alaska----	9	385	100.0	100.0	5	221	-	-	9	385	100.0	100.0
Ariz-----	31	3,758	25.2	18.6	10	1,192	2	131	33	3,889	22.3	15.1
Ark-----	67	3,149	100.0	100.0	8	305	30	1,281	97	4,430	100.0	100.0
Calif-----	220	54,057	11.2	15.4	54	9,574	2	723	222	54,780	10.2	15.0
Colo-----	213	14,414	100.0	100.0	29	1,581	22	1,028	235	15,442	100.0	100.0
Conn-----	376	20,233	90.0	89.2	91	5,467	68	2,754	444	22,987	90.1	89.3
Del-----	94	4,234	100.0	100.0	5	189	14	391	108	4,625	97.3	98.8
Fla-----	65	12,966	63.7	71.7	10	990	-	-	65	12,966	51.6	53.3
Ga-----	317	24,927	78.7	87.5	29	2,313	1	100	331	27,082	75.4	87.2
Hawaii----	2	267	18.2	13.6	-	-	1	250	3	517	18.8	21.4
Idaho-----	215	10,145	33.6	37.5	32	1,426	7	145	222	10,290	33.9	37.6
Ill-----	1,589	64,256	100.0	100.0	131	5,248	280	8,556	1,971	75,754	86.8	89.2
Ind-----	1,156	43,381	100.0	100.0	191	7,170	75	2,219	1,231	45,600	81.6	84.6
Iowa-----	1,630	57,533	92.4	93.2	248	8,514	864	20,752	2,494	78,285	74.0	78.1
Kans-----	692	30,712	92.1	97.1	105	4,200	56	1,698	748	32,410	87.4	92.9
Ky-----	392	15,680	75.0	75.0	30	1,200	35	900	427	16,580	67.7	69.1
La-----	51	3,594	79.7	73.6	6	469	13	882	221	13,961	94.4	91.6
Maine-----	413	17,504	86.6	87.7	56	2,608	106	3,651	519	21,155	86.5	87.7
Md-----	607	33,201	76.3	75.5	104	6,246	59	2,415	666	35,616	75.9	75.3
Mass-----	463	20,720	93.9	93.5	78	3,563	68	2,109	531	22,829	92.0	92.3
Mich-----	2,153	90,722	100.0	100.0	272	13,184	1,759	54,427	3,912	145,149	96.0	96.5
Minn-----	2,539	85,865	66.7	67.9	176	6,578	1,776	46,389	4,315	132,254	72.6	72.6
Miss-----	185	11,492	85.3	85.7	20	1,179	3	198	194	12,044	65.8	74.8
Mo-----	335	15,477	58.3	61.6	51	2,612	9	224	344	15,701	46.6	51.3
Mont-----	17	836	23.9	21.2	2	106	16	1,064	33	1,900	37.9	37.9
Nebr-----	275	12,360	84.4	85.8	47	2,220	76	2,690	351	15,050	82.2	84.4
Nev 3/-----	21	1,769	45.7	46.0	7	472	2	83	23	1,852	44.2	46.0
N. H-----	273	11,866	100.0	100.0	47	2,026	45	1,319	318	13,185	92.7	93.9
N. J-----	387	22,264	80.8	73.9	51	3,644	30	1,267	417	23,531	75.7	70.2
N. Mex-----	27	3,951	90.0	92.3	11	907	-	-	27	3,951	65.9	63.8
N. Y-----	3,789	173,363	100.0	100.0	412	19,000	2,340	78,260	6,129	251,623	92.4	93.1
N. C-----	788	44,283	100.0	100.0	89	4,834	47	1,691	922	50,002	95.6	96.7
N. Dak-----	153	5,380	94.4	89.4	16	591	23	586	185	6,198	62.3	71.1
Ohio-----	2,348	89,598	100.0	100.0	462	19,285	332	9,427	2,680	99,025	70.4	76.8
Okla-----	191	11,250	100.0	100.0	48	2,935	20	816	211	12,066	96.3	97.2
Oreg 3/-----	139	9,155	31.6	33.6	24	1,815	14	500	153	9,605	25.5	30.1
Pa-----	4,639	175,423	100.0	100.0	223	8,920	1,444	39,878	6,083	215,301	100.0	100.0
P.R-----	20	4,575	100.0	100.0	-	-	-	-	20	4,575	45.5	50.3
R.I-----	42	2,166	95.5	95.2	14	493	3	62	45	2,228	93.8	94.7
S.C-----	248	21,350	100.0	100.0	41	3,608	2	78	250	21,428	91.6	96.1
S. Dak-----	167	6,742	100.0	100.0	29	1,233	45	1,337	212	8,079	45.8	53.8
Tenn-----	427	23,545	87.0	87.8	56	3,690	2	96	431	23,735	76.7	82.0
Tex-----	249	20,308	74.6	73.2	55	4,400	9	485	264	21,099	73.3	71.0
Utah-----	380	19,056	100.0	100.0	22	1,169	30	1,006	410	20,062	100.0	100.0
Vt-----	601	28,608	62.0	59.9	99	4,425	191	7,048	792	35,656	53.6	52.9
Va-----	900	54,885	87.0	89.7	99	7,150	75	2,415	976	57,512	87.8	89.9
Wash-----	328	23,091	35.3	42.1	98	6,718	27	823	355	23,914	30.6	38.7
W. Va-----	100	3,910	82.6	63.2	16	738	6	159	166	5,546	87.4	68.8
Wis-----	2,842	119,364	94.6	95.2	448	18,816	7,052	232,716	9,894	352,080	66.8	72.4
Wyo-----	39	1,180	100.0	100.0	3	167	29	928	68	2,108	100.0	100.0
Total or average	33,510	1,555,460	83.6	74.5	4,172	206,808	17,118	536,381	51,071	2,113,026	75.2	71.3

1/ Includes WADAM Records: Georgia, 13 herds, 2,055 cows; Illinois, 102 herds, 2,942 cows; Louisiana, 157 herds, 9,485 cows; Mississippi, 6 herds, 354 cows; North Carolina, 87 herds, 4,028 cows; North Dakota, 9 herds, 232 cows; Tennessee, 2 herds, 94 cows; Texas, 6 herds, 306 cows; Virginia, 1 herd, 212 cows; West Virginia, 60 herds, 1,477 cows.
Total - 443 herds, 21,185 cows.

2/ Percent of Standard DHIA and DHIR herds or cows being machine processed.

3/ Based on last report available (1-1-64).

TABLE 7.--Ten-year summary (1955-1964)

Year	U. S. Report		Standard Plan DHIA,				All DHIA plans	
	Milk cows 1/	Milk produced	Production/cow		production/cow		Cows	DHIA cows as pct. of U.S. cows
			Milk	Fat	Milk	Fat		
	Thousands	Mil. Lb.	Lb.	Pct.	Lb.	Pct.	Thousands	Pct.
1955	21,044	122,945	5,842	3.85	225	3.95	2/1,781	2/8.5
1956	20,501	124,860	6,090	3.83	233	3.94	3/1,906	3/9.3
1957	19,774	124,628	6,303	3.81	240	3.93	2,118	10.7
1958	18,711	123,220	6,585	3.78	249	3.91	2,232	11.9
1959	17,901	121,989	6,815	3.76	256	3.88	2,439	13.6
1960	17,560	122,951	7,002	3.76	263	4/3.87	2,594	14.8
1961	17,367	125,442	7,223	3.75	271	3.87	2,727	15.7
1962	17,050	126,021	7,391	3.73	276	3.86	2,784	16.3
1963	16,534	125,009	7,561	3.72	281	3.85	2,823	17.1
1964	5/16,065	5/126,598	5/7,880	5/3.71	5/292	3.83	2,963	18.4

1/ Average number of milk cows on farms during year, excluding heifers not yet fresh; estimated by the Statistical Reporting Service.

2/ Report of Owner-Sampler testing included for first time.

3/ Report of WADAM testing included for first time.

4/ National testing year changed in 1960 to begin May 1. These values are averages of 1959 and 1961.

5/ USDA Statistical Reporting Service, Milk Production and Dairy Products, Annual Statistical Summary 1964, February 1965. Data are preliminary.

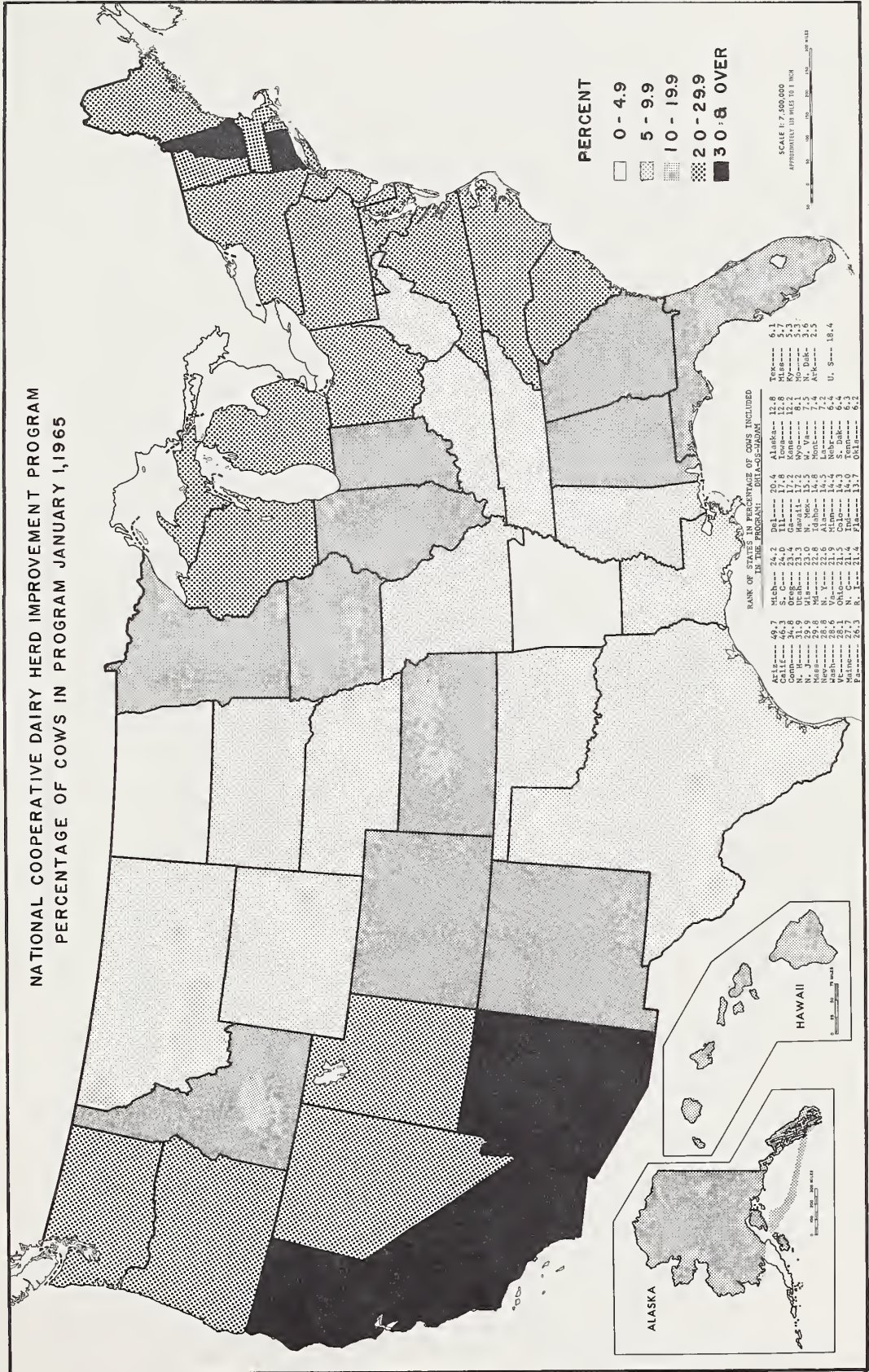
TABLE 8.--Counties, by State, with 25% or more cows included in the National Cooperative Dairy Herd Improvement Program (January 1, 1965)

Cows enrolled in DHIA plans			Cows enrolled in DHIA plans			Cows enrolled in DHIA plans			Cows enrolled in DHIA plans		
State	County	Percent	State	County	Percent	State	County	Percent	State	County	Percent
ALABAMA			GEORGIA			LOUISIANA (con't.)			NEW MEXICO		
Montgomery	37		Baldwin	96		Iberia	31		Bernalillo	47	
Elmore	34		Douglas	90		West Carroll	30		Valencia	45	
Blount	32		Macon	75		Ouachita	27		Dona Ana	27	
Russell	32		Rabun	75		Richland	27				
Jefferson	28		Houston	69		Lincoln	26		NEW YORK		
Shelby	27		Newton	65		Rapides	26		Ontario	51	
Talladega	27		Jefferson	62					Dutchess	45	
St. Clair	25		Clarke	60		MAINE			Genesee	43	
ARIZONA			Sumter	58		Oxford	44		Columbia	41	
Pima	98		Peach	48		Androscoggin Valley	38		Tompkins	41	
Pinal	93		Rockdale	48		Cumberland	35		Wayne	39	
Greenlee	90		Butts	46		York	30		Livingston	33	
Cochise	70		Decatur	45		Somerset	29		Long Island	33	
Graham	68		Mitchell	44		Penobscot	27		Onondaga	33	
Mariocopa	65		Payette	40					Orleans	33	
CALIFORNIA			Jones	40		MARYLAND			Schoharie	31	
Contra Costa	89		Dougherty	39		Howard	52		Schuyler	31	
Kern	77		McIntosh	39		Dorchester	35		Monroe	30	
San Diego	71		Richmond	38		Montgomery	35		Seneca	30	
Ventura	69		Lee	36		Carroll	30		Chenango	29	
Madera	68		Coffee	35		Harford	30		Cortland	28	
Santa Barbara	62		Floyd	35		Cecil	29		Niagara	28	
Sonoma	62		DeKalb	34		Kent	29		Chautauqua	27	
San Luis Obispo	61		Walton	34		MASSACHUSETTS			Tioga	27	
Marin	59		Jasper	33		Barnstable	55		Wyoming	27	
Montgomery	59		Clayton	32		Berkshire	39		Cayuga	25	
Placer	57		Folk	32		Essex	36		NORTH CAROLINA		
San Bernardino	56		Tattnall	30		Hampshire	29		Perquimans	93	
San Joaquin	56		Dooly	28		Franklin	29		Carteret	92	
Tulare	55		Carroll	27		Worcester	26		Durham	66	
San Benito	53		Henry	27					New Hanover	66	
Fresno	52		Spalding	26		MICHIGAN			Lenoir	61	
Solano	51		Thomas	26		Ingham	42		Brunswick	60	
Stanislaus	50		Worth	26		Lenawee	40		Orange	58	
Tehama	50		Heard	25		Muskegon	38		Wake	55	
Shasta	49		Laurens	25		Shiawassee	37		Pitt	54	
ILLINOIS						Calhoun	36		Craven	52	
Del Norte	47		Kendall	74		Jackson	36		Beaufort	51	
Inyo-Mono	47		Stark	61		Oscoda	36		Cumberland	51	
Napa	47		Moultrie	54		Washtenaw	36		Hyde	46	
Merced	45		Will	53		Barry	34		Pamlico	46	
Sacramento	45		Bond	51		Kalamazoo	34		Pender	46	
Santa Clara	45		Jasper	51		Livingston	34		Columbus	45	
Yuba	43		Logan	48		Monroe	34		Duplin	45	
Colusa	40		Champaign	47		Oakland	34		Onslow	44	
Kings	39		De Kalb	36		Ionia	33		Willson	42	
Riverside	39		Lake	34		St. Joseph	33		Jones	41	
Humboldt	33		Du Page	33		Branch	32		Washington	41	
Los Angeles	27		McHenry	31		Clinton	31		Wayne	41	
Sutter	26		McLean	31		Eaton	31		Guilford	38	
COLORADO			Jackson	29		Genesee	29		Rowan	38	
Pueblo	35		Kane	29		Iosco	28		Chatham	37	
Chaffee	34		Livingston	29		Gratiot	27		Halifax	35	
Mesa	30		Knox	27		Lapeer	27		Randolph	35	
Jefferson	26		Ogle	27		Hillsdale	26		Henderson	33	
CONNECTICUT			Carroll	26		Huron	26		Cleveland	32	
Tolland	44		Effingham	26		Mason	26		Hoke	31	
Litchfield	42		Winnabago	25		Saginaw	26		Alamance	30	
New Haven	38		INDIANA			Kent	25		Gaston	30	
Hartford	37		Elkhart	38		MINNESOTA			Macon	29	
Middlesex	30		Cass	30		Dakota	31		Davidson	27	
Windham	30		Boone	27		Winona	30		Montgomery	27	
New London	25		IOWA			Goodhue	26		Robeson	27	
DELAWARE			Dallas	34		Hennepin	25		Bladen	26	
Sussex	29		Lee	29		MISSOURI			Edgecombe	26	
FLORIDA			Polk	28		St. Francois	37		Sampson	26	
Seminole	66		Scott	27		NEW HAMPSHIRE			Scotland	26	
Orange	65		Story	27		Sullivan	42		Swain	26	
Jackson	63		Sac	25		Merrimack	39		Caswell	25	
Manatee	63		Webster	25		Cheshire	36		Catawba	25	
Washington	62		KANSAS			Belknap	34		OHIO		
Madison	50		Stevens	74		Grafton	32		Erie	40	
Osceola	48		Comanche	53		Coos-Essex	29		Marion	39	
Jefferson	45		Finney	53		Rockingham	28		Allen	38	
Leon	41		Pawnee	44		NEW JERSEY			Medina	38	
Alachua	37		Saline	36		Burlington	51		Auglaize	36	
Putnam	37		Stafford	32		Somerset	40		Logan	36	
Highlands	36		Harper	31		Morris	26		Lorain	35	
Lake	36		Hartvey	28		Sussex	25		Champaign	34	
Lafayette	34		Meade	28					Clark	33	
Dade	26		Reno	27					Ashland	32	
			LOUISIANA						Fayette	32	
			Franklin	34					Ottawa	32	
			Bossier	33					Fulton	31	
									Miami	31	
									Greene	30	
									Fairfield	29	

TABLE 8.--Counties, by State, with 25% or more cows included in the National Cooperative Dairy Herd Improvement Program (con't.)
(January 1, 1965)

State	County	Cows enrolled in DHIA plans Percent	State	County	Cows enrolled in DHIA plans Percent
OHIO (con't.)			UTAH (con't.)		
	Huron-----	29		Summit-----	42
	Richland-----	29		Salt Lake-----	34
	Wayne-----	29		Davis-----	30
	Seneca-----	28		Morgan-----	29
	Franklin-----	27		Utah-----	28
	Geauga-----	27		Sanpete-----	26
	Shelby-----	27		Weber-----	26
	Holmes-----	25		Washington-----	25
	Sandusky-----	25			
PENNSYLVANIA			VERMONT		
	Montgomery-----	47		Bennington-----	44
	Clinton-----	45		Windsor-----	40
	Blair-----	42		Addison-----	38
	Union-----	41		Washington-----	31
	Bucks-----	40		Windham-----	31
	Dauphin-----	40		Rutland-----	29
	Northumberland-----	36		Franklin-----	27
	Allegheny-----	35		Orleans-----	27
	Mifflin-----	35		Orange-----	25
	Montour-----	34	VIRGINIA		
	Potter-----	34		James City-----	81
	Lancaster-----	32		Northampton-----	79
	Lebanon-----	32		Clarke-----	67
	Perry-----	32		Lancaster-----	55
	Centre-----	31		Powhatan-----	52
	Cumberland-----	31		City of Chesapeake-----	49
	Chester-----	30		City of Va. Beach-----	47
	Huntingdon-----	30		Loudoun-----	45
	Luzerne-----	30		Warren-----	42
	McKean-----	30		Nansemond-----	41
	Schuylkill-----	30		Prince George-----	41
	Wyoming-----	30		Culpeper-----	39
	Indiana-----	29		Southampton-----	39
	Sullivan-----	29		Henrico-----	38
	Bradford-----	28		King William-----	38
	Columbia-----	28		Orange-----	38
	Monroe-----	28		Bath-----	37
	Elk-----	27		Amelia-----	36
	Lehigh-----	27		Dinwiddie-----	36
	Carbon-----	26		Madison-----	36
	Fulton-----	26		Fulaski-----	35
	Northampton-----	26		Rockingham-----	35
	Tioga-----	26		Fauquier-----	32
	York-----	26		Prince William-----	31
	Bedford-----	25		Augusta-----	30
	Franklin-----	25		Hanover-----	30
	Juniata-----	25		Charlotte-----	29
RHODE ISLAND				Brunswick-----	28
	Kent-----	43		Roanoke-----	28
	Washington-----	34		Fairfax-----	26
SOUTH CAROLINA				Franklin-----	26
	Sumter-----	56	WASHINGTON		
	Orangeburg-----	51		Kittitas-----	60
	Bamberg-----	49		Grays Harbor-----	56
	Saluda-----	44		Mason-----	46
	Calhoun-----	41		Thurston-----	46
	Edgefield-----	36		Pierce-----	40
	Beaufort-----	35		Skagit-----	39
	Newberry-----	35		Spokane-----	36
	Lee-----	34		King-----	33
	Marlboro-----	33		Pacific-----	31
	Colleton-----	32		Clallam-----	27
	Jasper-----	30		Grant-----	26
SOUTH DAKOTA				Clark-----	25
	Butte-----	53		Gowlitz-----	25
	Lawrence-----	48		Stevens-----	25
TEXAS			WISCONSIN		
	Starr-----	80		Kenosha-----	44
	Wichita-----	65		Winnebago-----	42
	Burleson-----	60		Kewaunee-----	35
	Milam-----	60		Manitowoc-----	35
	Willacy-----	50		Racine-----	35
	Cameron-----	40		Rock-----	33
	Kaufman-----	40		Calumet-----	32
	Randall-----	40		Walworth-----	32
	Walker-----	40		Green Lake-----	31
	Wheeler-----	38		Waukesha-----	31
	Hays-----	33		Columbia-----	30
	Williamson-----	33		Fond du Lac-----	30
	Madison-----	30		Dunn-----	29
UTAH				Outagamie-----	29
	Wasatch-----	44		Barron-----	28
				Brown-----	26
				St. Croix-----	26
				Sheboygan-----	26
				Florence-----	25
				Jefferson-----	25
				Washington-----	25

NATIONAL COOPERATIVE DAIRY HERD IMPROVEMENT PROGRAM
PERCENTAGE OF COWS IN PROGRAM JANUARY 1, 1965



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